



# Quick change-over systems

High speed clamping device change-over

# QUICK CHANGE-OVER SYSTEMS

## centroteX / mandoteX

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centroteX and mandoteX — ideal for today's high-paced manufacturing environment! It is feasible to equip the HAINBUCH quick change-over systems on all your machines, giving you the advantage of changing clamping devices in a matter of minutes, thus earning money quicker. This is because these set-up devices allow you to manufacture with job orientation. And, thanks to our unique CENTREX technology, you will achieve a repeatability of  $\leq 0.003$  mm on the interface. However, our high-speed solutions have even more to offer: As you will experience shorter machine downtimes along with reduced processing and throughput times, your quick change-over systems will pay off in no time. Better yet, you will not have to compromise on quality, rigidity or precision. Select the spindle connection and the clamping device that is right for you from our extensive assortment. We can even accommodate you if you are already using clamping devices made by other manufacturers. We will simply adapt them to our interface. How people are manufacturing today!

**Get the competitive advantages of quick change-over.**




### Key advantages

- Clamping device quick change-over system
- Enormous reduction in clamping device change-over times
- Repeatability between machine adapter and clamping device adapter  $\leq 0.003$  mm – without alignment
- Machine-overlapping utilization of clamping devices
- Power actuation or fluid actuation of the clamping devices are possible
- The Monteq mounting aid for easier handling and optimal change-over accuracy



centroteX in use

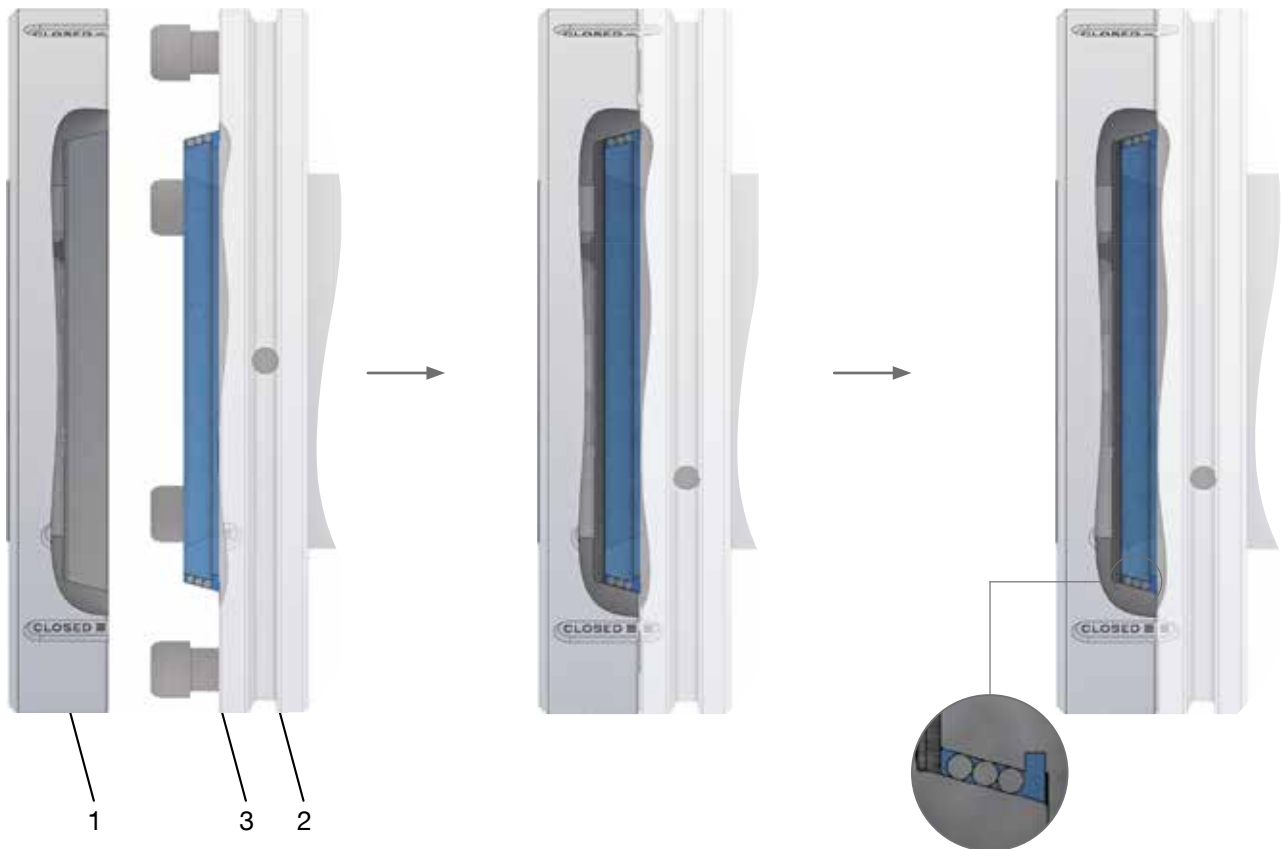
Quick change-over systems in overview

	<b>centroteX S</b>	<b>centroteX M</b>	<b>mandoteX</b>
			
Description	One of the smallest standardized quick change-over systems on the market – particularly for small spindles	Standardized quick change-over interface with an extensive assortment of clamping devices	Standardized quick change-over interface especially for mandrels
Change-over time	Approx. 1 min.	Approx. 5 min.	Approx. 1 min.
Application	<ul style="list-style-type: none"> <li>■ Lathes and grinding machines up to a through-hole capacity of 52 mm</li> <li>■ Vertical lathes</li> </ul>	<ul style="list-style-type: none"> <li>■ Lathes up to a through-hole capacity of 110 mm</li> </ul>	<ul style="list-style-type: none"> <li>■ Lathes and grinding machines</li> </ul>
Spindle nose	KK5, KK6, AP140, AP170	KK6, KK8, AP170, AP220	KK5, KK6, KK8, AP140, AP170
Locking	Radial	Axial	Axial
Drawtube connection	Bayonet coupling	Bayonet coupling	Bayonet coupling
Max. clamping device Ø	224 mm	315 mm	139 mm
Max. RPM	Determined by clamping device	Determined by clamping device	Determined by mandrel
Actuation	Draw / pressure	Draw / pressure	Draw
Suitable for	<ul style="list-style-type: none"> <li>■ TOPlus mini chuck</li> <li>■ TOPlus premium chuck</li> <li>■ SPANNTOP mini chuck</li> <li>■ 3-jaw chuck B-Top</li> <li>■ 4-jaw chuck InoFlex VT-S</li> <li>■ Mandrel MANDO T211</li> <li>■ Mandrel MANDO T212</li> <li>■ Mandrel MANDO T812</li> <li>■ Mandrel MAXXOS T211</li> <li>■ Third-party clamping devices [weight ≤ 28 kg, stroke ≤ 26 mm, actuating force ≤ 48 kN]</li> </ul>	<ul style="list-style-type: none"> <li>■ TOPlus mini chuck</li> <li>■ TOPlus premium chuck [on request]</li> <li>■ TOPlus chuck</li> <li>■ SPANNTOP mini chuck</li> <li>■ SPANNTOP nova chuck</li> <li>■ 3-jaw chuck B-Top</li> <li>■ 4-jaw chuck InoFlex VT-S</li> <li>■ Mandrel MANDO T211</li> <li>■ Mandrel MANDO T212</li> <li>■ Mandrel MANDO T812</li> <li>■ Mandrel MAXXOS T211</li> <li>■ Third-party clamping devices [weight ≤ 100 kg, stroke ≤ 28 mm, actuating force ≤ 65 kN]</li> </ul>	<ul style="list-style-type: none"> <li>■ Mandrel MANDO T211</li> <li>■ Mandrel MANDO T212</li> <li>■ Mandrel MANDO T812</li> <li>■ Mandrel MAXXOS T211</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ In stock</li> <li>■ Large selection of standard clamping devices</li> <li>■ Extra fast change-over</li> </ul>	<ul style="list-style-type: none"> <li>■ In stock</li> <li>■ Large selection of standard clamping devices</li> <li>■ Extra rigid design</li> </ul>	<ul style="list-style-type: none"> <li>■ In stock</li> <li>■ Large selection of standard clamping devices</li> <li>■ Extra affordable</li> </ul>

# QUICK CHANGE-OVER SYSTEMS

## centroteX / mandoteX

**CENTREX** – the technology that guarantees maximum precision in our quick-change interfaces

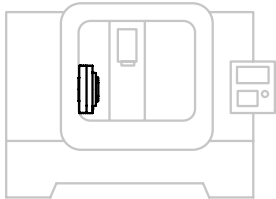


Machine adapter [1] with inner taper and clamping device adapter [2] with precision steel balls embedded in the rubber [3].

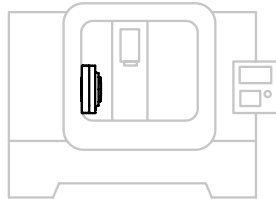
Place the clamping device adapter on the machine adapter. The precision steel balls contact the inner taper.

When the clamping device adapter is locked the taper with the precision steel balls is pulled into the inner taper. The overdetermined position of the precision steel balls causes the clamping device adapter to move into the exact same position each time.

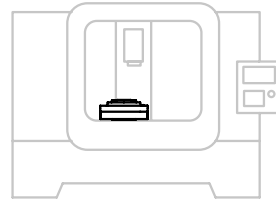
**One interface for all requirements** – versatile use of clamping devices on different machines



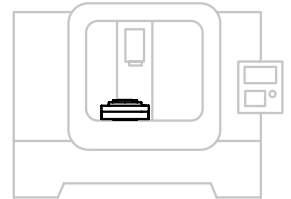
Lathe 1  
with centroteX  
machine adapter



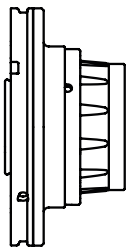
Lathe 2  
with centroteX  
machine adapter



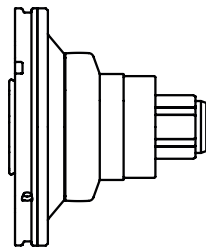
Milling machine  
with centroteX  
machine adapter



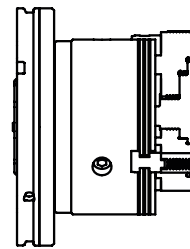
Machining center  
with centroteX  
machine adapter



Clamping device adapter  
with chuck



Clamping device adapter  
with mandrel




Clamping device adapter  
with jaw chuck

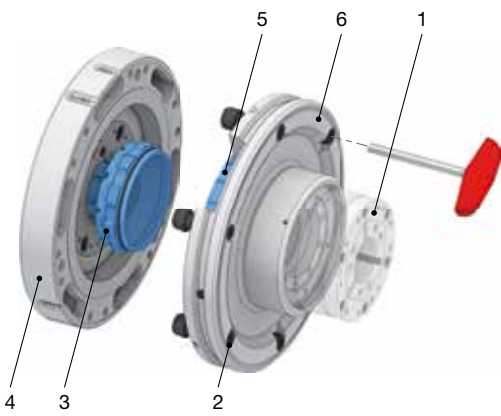
- ➔ Always use the optimal clamping device for production.
- ➔ Always manufacture the required workpiece.
- ➔ You only have to purchase the specific clamping device once.

# QUICK CHANGE-OVER SYSTEMS

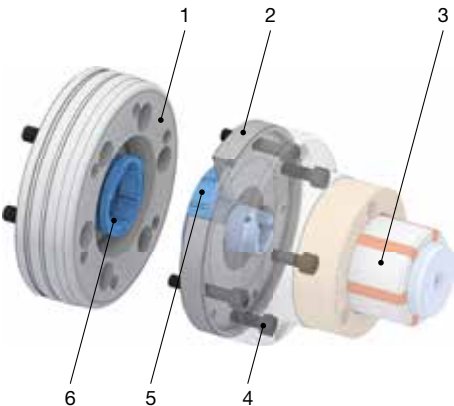
## centroteX S in detail

Designation	
<ul style="list-style-type: none"><li>1 Clamping device</li><li>2 Bayonet coupling</li><li>3 One radial quick-acting screw</li><li>4 Machine adapter</li><li>5 CENTREX system for <math>\mu\text{m}</math>-precise use without adjustment</li><li>6 Clamping device adapter</li></ul>	

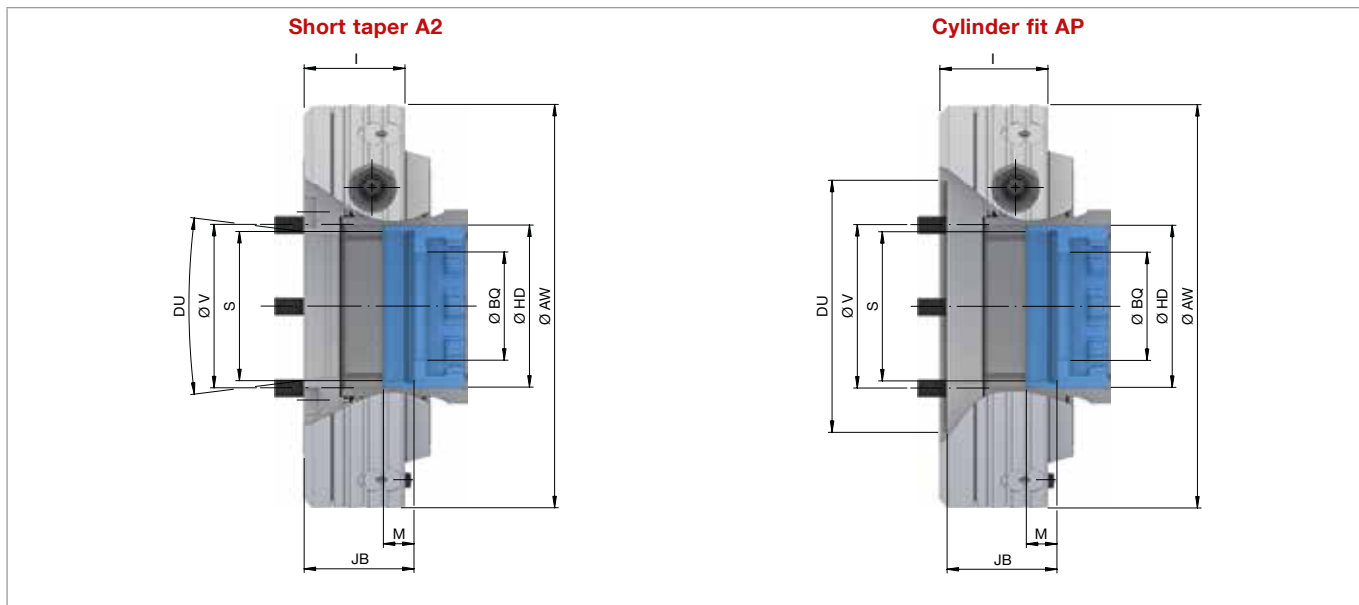
## centroteX M in detail

Designation	
<ul style="list-style-type: none"><li>1 Clamping device</li><li>2 Six axial quick-acting screws</li><li>3 Bayonet coupling</li><li>4 Machine adapter</li><li>5 CENTREX system for <math>\mu\text{m}</math>-precise use without adjustment</li><li>6 Clamping device adapter</li></ul>	

## mandoteX in detail

Designation	
<ul style="list-style-type: none"><li>1 Machine adapter</li><li>2 Clamping device adapter</li><li>3 Mandrel [not included in the standard scope of delivery]</li><li>4 Three axial locking screws</li><li>5 CENTREX system for <math>\mu\text{m}</math>-precise use without adjustment</li><li>6 Bayonet coupling</li></ul>	

centroteX S. Machine adapter with short taper / cylinder fit



Spindle nose	DU	<b>A2-5</b>	<b>A2-6</b>	<b>AP140</b>	<b>AP170</b>
<b>Outer Ø [mm]</b>	AW	<b>224</b>			
Ø Capacity [mm]	BQ	52			
Repeatability ≤ [mm]		0,003			
Outer Ø 2 [mm]	HD	90			
Connecting thread inside	S	M85 x 2			
Depth of thread [mm]	M	17			
Thread position in the front end-stop [mm]	JB	61,5			
Bolt hole circle	V	LK Ø 104,8 [6 x M10]	LK Ø 133,4 [6 x M12]	LK Ø 104,8 [6 x M10]	LK Ø 133,4 [6 x M12]
Total length [mm]	I	56		60	
Weight [kg]		15,8	15,3	16,5	15,8
In stock		✓	✓	✓	✓
Order no.		10015365	10015370	10015373	10015374

A2-5 / A2-6: Machine spindle standard DIN 702-1.

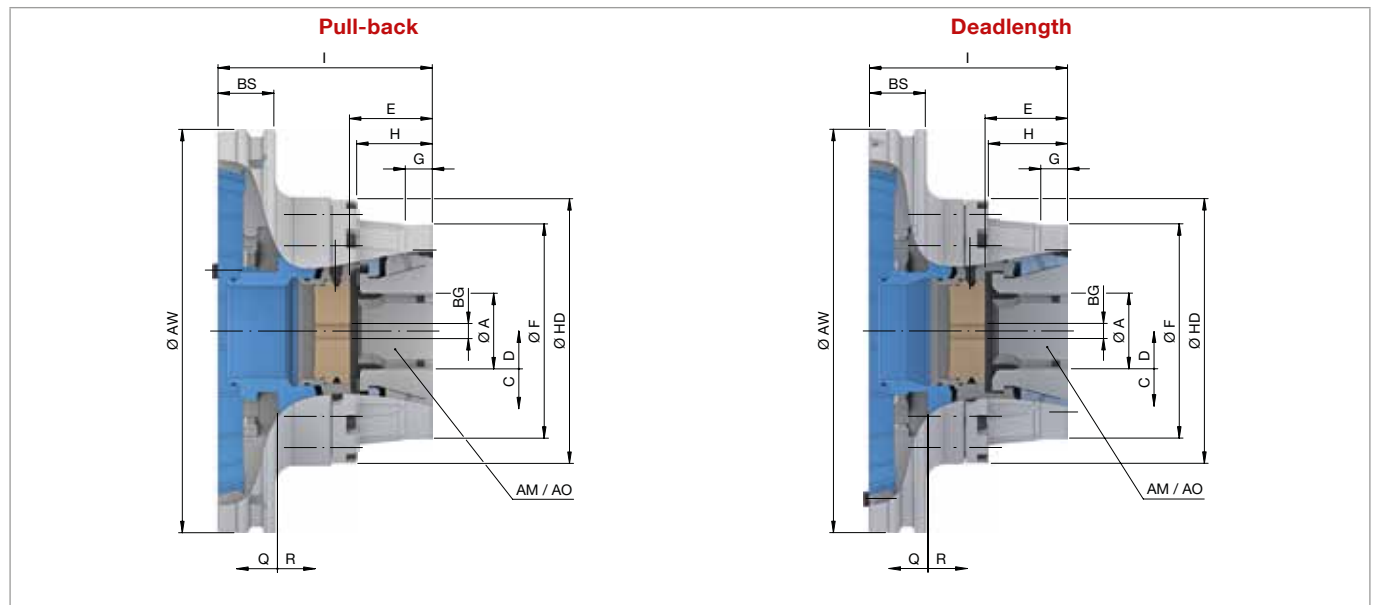
Scope of delivery

- Machine adapter
- Bayonet coupling
- Fit-on wrench socket for actuation tool

# QUICK CHANGE-OVER SYSTEMS

## centroteX S

### centroteX S. Clamping device adapter + TOPlus mini



Variant	Pull-back				Deadlength				
Size	26	40	52	65	26	40	52	65	
Max. radial clamping force [kN]	35	103	108	120	35	103	108	120	
Max. axial drawtube force [pull / push] [kN]	16	33	40	45	16	33	40	45	
RPM n max. [1/min.]	6000								
Clamping range [mm]	A 3 – 26	3 – 40	3 – 52	3 – 65	3 – 26	3 – 40	3 – 52	3 – 65	
Release stroke in Ø [mm]	C 1	0,6		1	1	0,6		1	
Reserve stroke in Ø [mm]	D 0,6	0,8		1	0,6	0,8		1	
Range / recommended workpiece tolerance [mm]	± 0,3	± 0,5			± 0,3	± 0,5			
End-stop depth [mm]	E 33,8	48,1	46	54	33,8	47,7	45,8	54	
End-stop thread size [M]	BG 8	10		12	8	10		12	
Location front end-stop	F Ø 67 f7	Ø 91 f7	Ø 119 f7	Ø 129 f7	Ø 74 f7	Ø 99 f7	Ø 119 f7	Ø 137 f7	
Centering length [mm]	G 15	20	15		20		15	20	
Length [mm]	H 31	47	42	49	31	47	44	50	
Length 2 [mm]	BS	32							
Total length [mm]	I 100,5	115	119	125	107	117,5	110	124	
Reserve stroke axial [mm]	Q 1	2			1	2			
Release stroke axial [mm]	R	2		2,5	2		2,5		
Clamping head serrated	AM TOP 26	TOP 40	TOP 52	TOP 65	TOP 26	TOP 40	TOP 52	TOP 65	
Clamping head smooth	AO TOP 26 G	TOP 40 G	TOP 52 G	TOP 65 G	TOP 26 G	TOP 40 G	TOP 52 G	TOP 65 G	
Outer Ø [mm]	AW	224							
Outer Ø 2 [mm]	HD	113	131	147	160	113	132	147	166
Weight [kg]		10	11	13	14	10	12	13	15
In stock		✓	✓	✓	✓	✓	✓	✓	✓
Order no.	10015296	10015297	10015298	10015301	10015303	10015305	10015306	10015308	

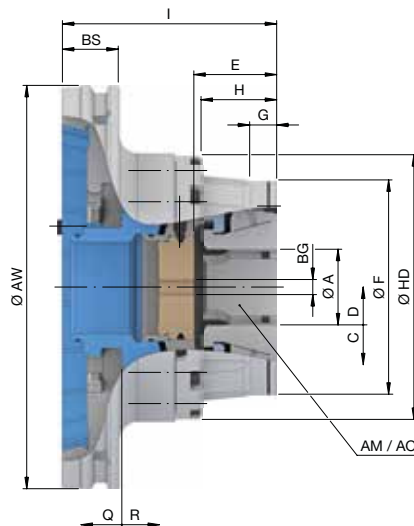
You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Chuck
- Base end-stop



**centroteX S.** Clamping device adapter + TOPlus premium



Variant	Pull-back			
Size	26	40	52	65
Max. radial clamping force [kN]	35	103	108	120
Max. axial drawtube force [pull / push] [kN]	16	33	40	45
RPM n max. [1/min.]	6000			
Clamping range [mm]	A 3 – 26	3 – 40	3 – 52	3 – 65
Release stroke in Ø [mm]	C 1		0,6	
Reserve stroke in Ø [mm]	D 0,6		0,8	1
Range / recommended workpiece tolerance [mm]	± 0,3		± 0,5	
End-stop depth [mm]	E 33,8	48,1	46	54
End-stop thread size [M]	BG 8		10	12
Location front end-stop	F Ø 67 f7	Ø 91 f7	Ø 119 f7	Ø 129 f7
Centering length [mm]	G 15	20	15	20
Length [mm]	H 31	47	42	49
Length 2 [mm]	BS 32			
Total length [mm]	I 100,5	115	119	125
Reserve stroke axial [mm]	Q 1		2	
Release stroke axial [mm]	R 2			2,5
Clamping head serrated	AM TOP 26	TOP 40	TOP 52	TOP 65
Clamping head smooth	AO TOP 26 G TOP 26 G premium	TOP 40 G TOP 40 G premium	TOP 52 G TOP 52 G premium	TOP 65 G TOP 65 G premium
Outer Ø [mm]	AW 224			
Outer Ø 2 [mm]	HD 113	131	147	160
Weight [kg]	10	11	13	14
In stock	✓	✓	✓	✓
Order no.	10017796	10017797	10017798	10017799

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

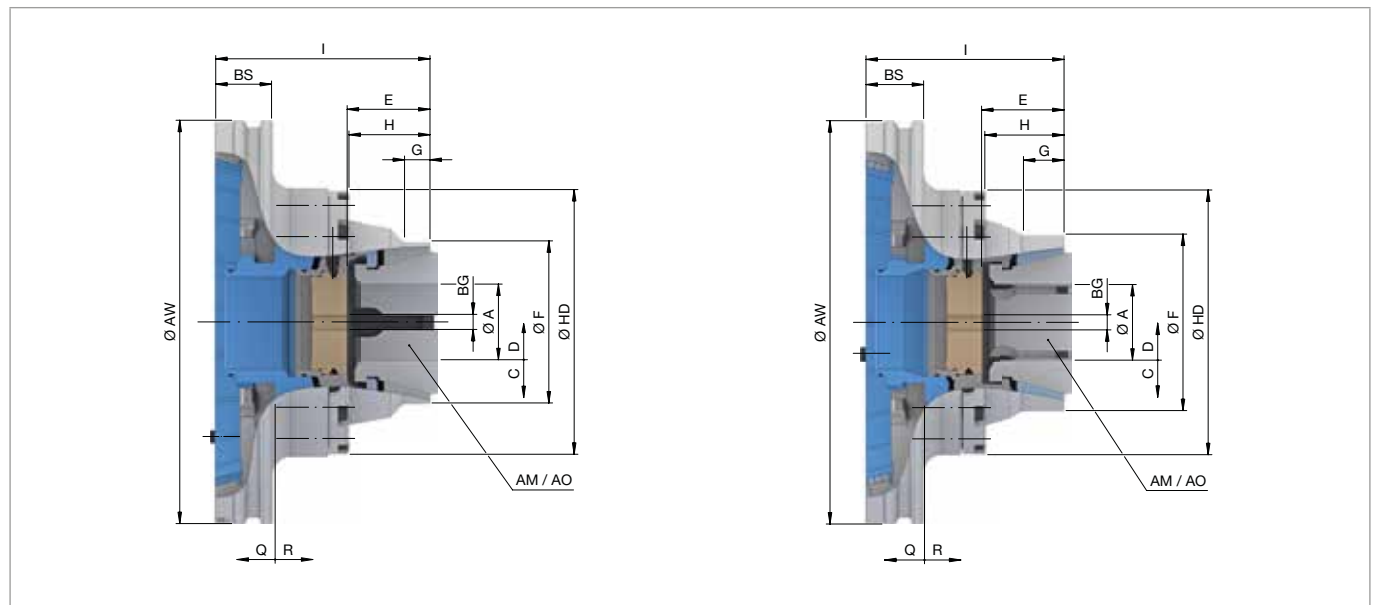
**Scope of delivery**

- Clamping device adapter
- Chuck
- Base end-stop

# QUICK CHANGE-OVER SYSTEMS

## centroteX S

### centroteX S. Clamping device adapter + SPANNTOP mini



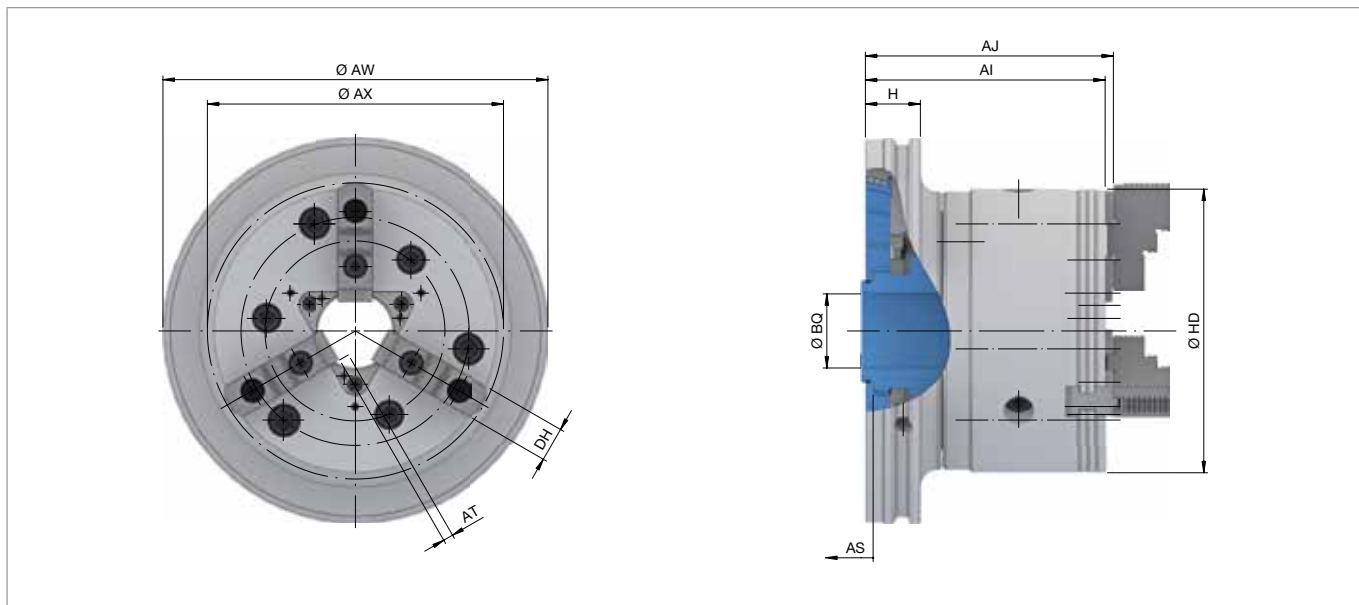
Variant	Pull-back				Deadlength				
Size	32	42	52	65	32	42	52	65	
Max. radial clamping force [kN]	70	80	94	105	70	80	94	105	
Max. axial drawtube force [pull / push] [kN]	25	35	40	45	25	35	40	45	
RPM n max. [1/min.]	6000								
Clamping range [mm]	A	3 – 32	3 – 42	3 – 52	3 – 65	3 – 32	3 – 42	3 – 52	3 – 65
Release stroke in Ø [mm]	C	0,6							
Reserve stroke in Ø [mm]	D	0,8	1		0,8	1			
Range / recommended workpiece tolerance [mm]		± 0,3	± 0,5		± 0,3	± 0,5			
End-stop depth [mm]	E	45	42	46	54	45	42	46	54
End-stop thread size [M]	BG	10		12	10	10		12	
Location front end-stop	F	Ø 66 f7	Ø 90 f7		Ø 111 f7	Ø 74 f7	Ø 90 f7	Ø 98 f7	Ø 119 f7
Centering length [mm]	G	17	15		18	15	25	23	22
Length [mm]	H	43	42	45	47	43	44		50
Length 2 [mm]	BS	31							
Total length [mm]	I	115,5	114	119	125	120	118	110	124
Reserve stroke axial [mm]	Q	2,5	2		3	2			
Release stroke axial [mm]	R	3			2,5				
Clamping head serrated	AM	SK 32 BZI	SK 42 BZI	SK 52 BZI	SK 65 BZI	SK 32 BZI	SK 42 BZI	SK 52 BZI	SK 65 BZI
Clamping head smooth	AO	SK 32 BZIG	SK 42 BZIG	SK 52 BZIG	SK 65 BZIG	SK 32 BZIG	SK 42 BZIG	SK 52 BZIG	SK 65 BZIG
Outer Ø [mm]	AW	224							
Outer Ø 2 [mm]	HD	129	127	147	160	127	137	147	166
Weight [kg]		11		13	11	12	11	13	
In stock		✓	✓	✓	✓	✓	✓	✓	
Order no.		10015286	10015287	10015289	10015290	10015291	10015293	10015294	10015295

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

#### Scope of delivery

- Clamping device adapter
- Chuck
- Base end-stop

**centroteX S.** Clamping device adapter + jaw chuck B-Top



Size		165	215
<b>Max. radial clamping force [kN]</b>		<b>41</b>	<b>74</b>
Max. axial drawtube force [pull / push] [kN]		30	46
RPM n max. [1/min.]		6000	5400
Stroke per jaw [mm]	AT	5,9	7,4
Jaw width [mm]	DH	20	22
Piston stroke [mm]	AS	20	25
Swing Ø	AX		191
Length [mm]	H		32
Outer Ø [mm]	AW		224
Outer Ø 2 [mm]	HD	165	215
Length without jaws [mm]	AI	139,5	143,1
Length with jaws [mm]	AJ	144,9	148,5
Ø Capacity [mm]	BQ	43	55
Weight [kg]		22	34
In stock		✓	✓
Order no.		10016705	10015364

You will find matching jaws and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

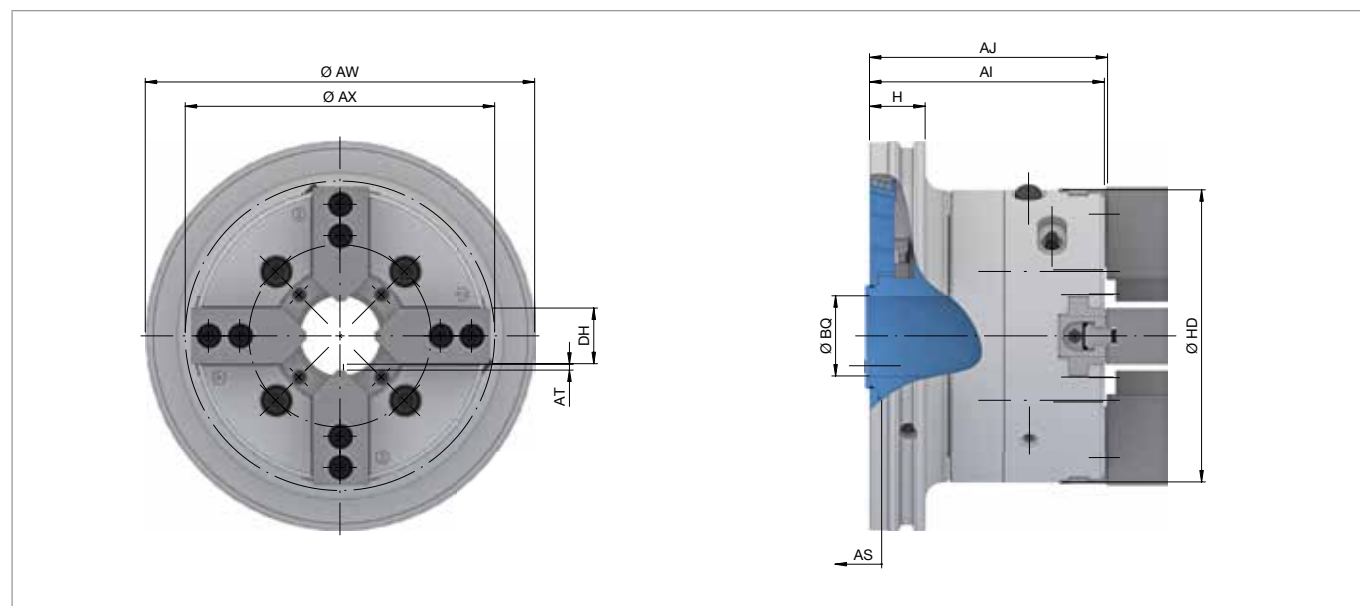
**Scope of delivery**

- Clamping device adapter
- Jaw chuck
- Master jaws
- Jaw release wrench

# QUICK CHANGE-OVER SYSTEMS

## centroteX S

### centroteX S. Clamping device adapter + InoFlex VT-S



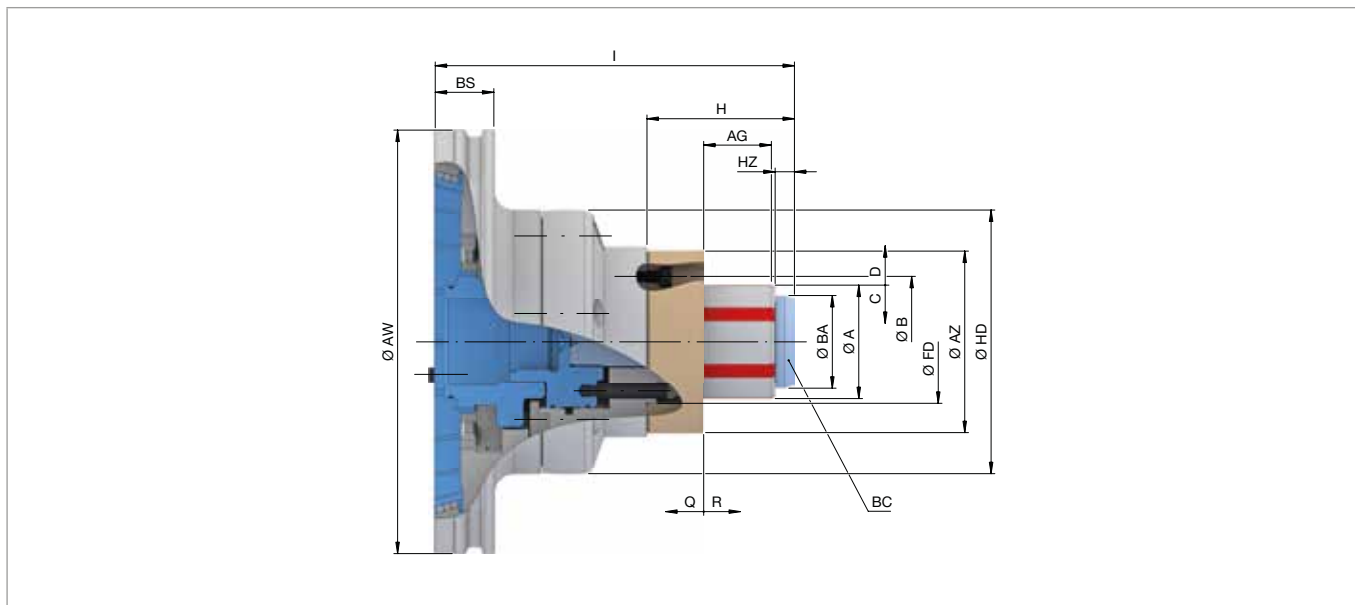
Size	165	215
<b>Variant</b>		<b>VT-S</b>
Max. radial clamping force [kN]	52	100
Max. axial drawtube force [pull / push] [kN]	20	40
RPM n max. [1/min.]	5000	3900
Stroke per jaw [mm]	AT	4,3
Jaw width [mm]	DH	34
Piston stroke [mm]	AS	19
Swing Ø	AX	222
Length [mm]	H	32
Outer Ø [mm]	AW	224
Outer Ø 2 [mm]	HD	218
Length without jaws [mm]	AI	161,7
Length with jaws [mm]	AJ	163,2
Ø Capacity [mm]	BQ	52
Compensating stroke for each jaw [mm]		3,3
Weight [kg]		33
In stock	✓	✓
Order no.	10016706	10016708

You will find matching jaws and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Jaw chuck
- Top jaws, soft
- T-slot nuts
- Grease cartridge
- Assembly wrench for revolving threaded ring

**centroteX S.** Clamping device adapter + mandrel MANDO T211



Size		0	1	2	3	4	5
<b>Clamping range [mm]</b>	A	20 – 28	26 – 38	36 – 54	50 – 80	69 – 120	100 – 130
Max. radial clamping force [kN]		42		85	105	150	170
Max. axial drawtube force [pull / push] [kN]		10		20	25	35	40
Max. clamping length [mm]	AG	22	26	43	49	59	86
RPM n max. [1/min.]				6000			5000
Draw bolt Ø [mm]	BA	19	25	35	49	68	97
Draw bolt head height [mm]	HZ	7,5	11	10	11		16
Reserve stroke in Ø [mm]	D		0,3			0,4	0,5
Release stroke in Ø [mm]	C		0,3			0,4	0,5
Reserve stroke axial [mm]	Q		1,5		2	2,5	3
Release stroke axial [mm]	R		2		2,5		3
Reception workpiece end-stop	FD	Ø 32 f7	Ø 41 f7	Ø 50 f7	Ø 65 f7	Ø 78 f7	Ø 102 f7
Bolt hole circle end-stop	B	LK Ø 50 [3 x M6]	LK Ø 55 [3 x M6]	LK Ø 78 [3 x M6]	LK Ø 80 [3 x M6]	LK Ø 90 [3 x M6]	LK Ø 117 [3 x M6]
End-stop outer Ø [mm]	AZ	65	69	93	96	100	150
Length [mm]	H	40	51	71	78	98	120
Length 2 [mm]	BS			31			37,5
Total length [mm]	I	150	160	180	190	205	236
Outer Ø [mm]	AW			224			230
Outer Ø 2 [mm]	HD			139			230
Max. actuating torque [Nm]	BC	10	20	25	55		65
Weight [kg]		13	12	13	14	15	32
In stock		✓	✓	✓	✓	✓	✓
Order no.		10015309	10015310	10015319	10015320	10015321	10015322

For size 4, clamping range 101 - 120 mm, a max. speed of 4,200 RPM applies.

You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

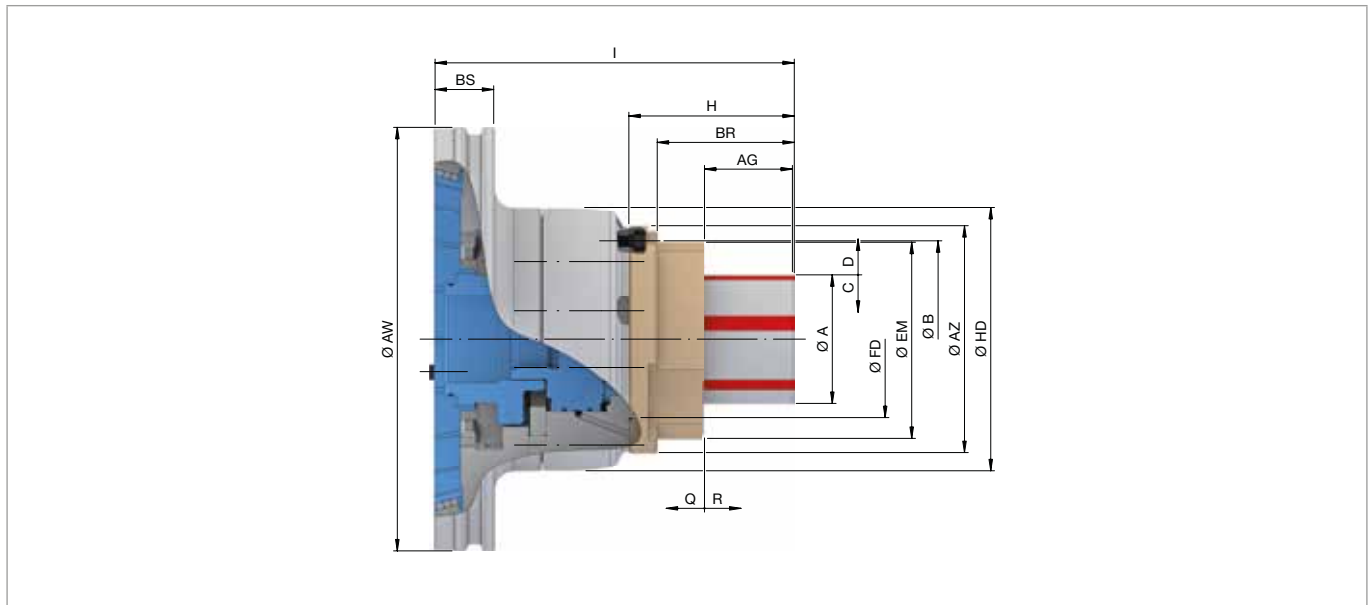
**Scope of delivery**

- Clamping device adapter
- Mandrel without air sensing adapter
- Draw bolt

# QUICK CHANGE-OVER SYSTEMS

## centroteX S

### centroteX S. Clamping device adapter + mandrel MANDO T212



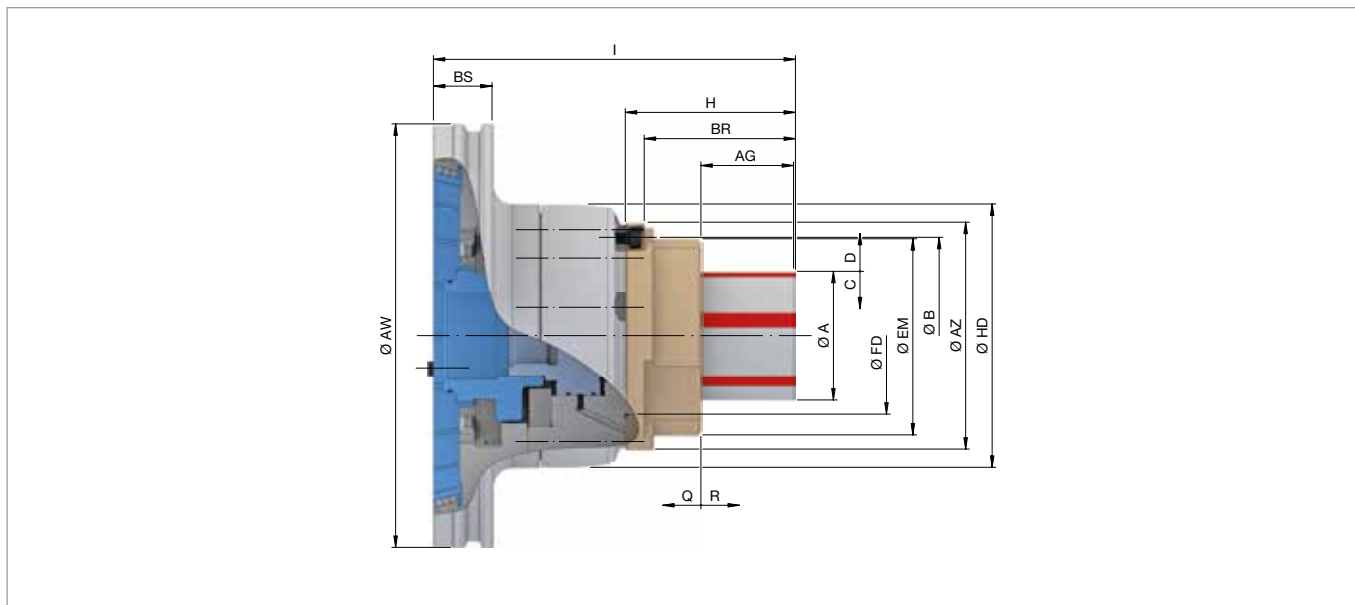
Size		<b>XXS</b>	<b>XS</b>	<b>S</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Clamping range [mm]</b>	A	<b>8 – 13</b>	<b>13 – 19</b>	<b>16 – 21</b>	<b>20 – 28</b>	<b>26 – 38</b>	<b>36 – 54</b>	<b>50 – 80</b>	<b>69 – 100</b>	<b>100 – 130</b>
Max. radial clamping force [kN]		42				85		105	150	170
Max. axial drawtube force [pull / push] [kN]		10				20		25	35	40
Max. clamping length [mm]	AG	12,9	14	15	21	25	40	44,5	52,5	53
Reserve stroke in Ø [mm]	D	0,2	0,3				0,4		0,5	
Release stroke in Ø [mm]	C	0,2	0,3				0,4		0,5	
RPM n max. [1/min.]		6000						5000		5000
Reserve stroke axial [mm]	Q	1,5						2,5		3
Release stroke axial [mm]	R	1,5	2				3			
Reception workpiece end-stop	FD	Ø 34 f7	Ø 36 f7	Ø 39 f7	Ø 47 f7	Ø 55 f7	Ø 65 f7	Ø 83 f7	Ø 103 f7	Ø 140 f7
Bolt hole circle end-stop	B	LK Ø 53 [3 x M5]		LK Ø 57 [3 x M5]	LK Ø 70 [3 x M6]	LK Ø 75 [3 x M6]	LK Ø 90 [3 x M6]	LK Ø 104 [3 x M6]	LK Ø 124 [3 x M6]	LK Ø 167 [3 x M8]
End-stop outer Ø [mm]	AZ	65		70	90		104	120	138	195
End-stop outer Ø 2 [mm]	EM	41	42	45	54	62	76	105	124	160
Length [mm]	H	46	40	48	59	65	81	88	98	112
Length 2 [mm]	BS	31								32
Depth [mm]	BR	36,5		38	44	47	62	77,5		92
Total length [mm]	I	150,5	145	147	158	164	182	190	198,5	224
Outer Ø [mm]	AW	224								230
Outer Ø 2 [mm]	HD	139								230
Weight [kg]		13				14		15	16	34
In stock		✓	✓	✓	✓	✓	✓	✓	✓	✓
Order no.		10015332	10015334	10015336	10015337	10015353	10015359	10015360	10015362	10015363

You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Mandrel without air sensing adapter
- Coupling ring
- Support sleeve for SAD segmented clamping bushings
- Mounting aid depending on size

**centroteX S.** Clamping device adapter + mandrel MANDO T812



Size		<b>XXS</b>	<b>XS</b>	<b>S</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Clamping range [mm]</b>	A	<b>8 – 13</b>	<b>13 – 19</b>	<b>16 – 21</b>	<b>20 – 28</b>	<b>26 – 38</b>	<b>36 – 54</b>	<b>50 – 80</b>	<b>69 – 100</b>
Max. radial clamping force [kN]				42			85	105	150
Max. axial drawtube force [pull / push] [kN]				10			20	25	35
Max. clamping length [mm]	AG	8,2	14	15	21	25	40	44,5	52,5
Reserve stroke in Ø [mm]	D	0,1			0,2			0,3	0,4
Release stroke in Ø [mm]	C	0,2			0,4			0,5	0,6
RPM n max. [1/min.]						6000			
Reserve stroke axial [mm]	Q			1				1,5	2
Release stroke axial [mm]	R	1,5			2				2,5
Reception workpiece end-stop	FD	Ø 34 f7	Ø 36 f7	Ø 39 f7	Ø 47 f7	Ø 55 f7	Ø 65 f7	Ø 83 f7	Ø 103 f7
Bolt hole circle end-stop	B	LK Ø 53 [3 x M5]		LK Ø 57 [3 x M5]	LK Ø 70 [3 x M6]	LK Ø 75 [3 x M6]	LK Ø 90 [3 x M6]	LK Ø 104 [3 x M6]	LK Ø 124 [3 x M6]
End-stop outer Ø [mm]	AZ		65	70	90		104	120	138
End-stop outer Ø 2 [mm]	EM	41	42	45	54	62	76	105	124
Length [mm]	H	44	47,5	49,5	60,5	66,5	82,5		89,5
Length 2 [mm]	BS					31			
Depth [mm]	BR	35,0	39,5	41,5	51,5	57,5	73,5	80,0	90,5
Total length [mm]	I	136,3	149	152	164	167,5	183,5	191,5	201,5
Outer Ø [mm]	AW					224			
Outer Ø 2 [mm]	HD					139			
Weight [kg]			13			14		16	17
In stock		✓	✓	✓	✓	✓	✓	✓	✓
Order no.		10016709	10016711	10016712	10016713	10016715	10016716	10016717	10016718

You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

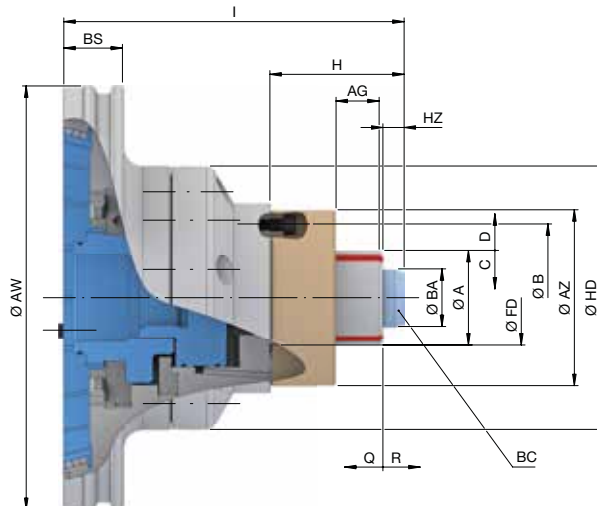
**Scope of delivery**

- Clamping device adapter
- Mandrel without air sensing adapter
- Coupling ring
- Support sleeve for SAD segmented clamping bushings
- Mounting aid depending on size

# QUICK CHANGE-OVER SYSTEMS

## centroteX S

### centroteX S. Clamping device adapter + mandrel MAXXOS T211



Size		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	
<b>Clamping range [mm]</b>	A	<b>18 – 24</b>	<b>20 – 32</b>	<b>24 – 39</b>	<b>32 – 50</b>	<b>39 – 68</b>	<b>50 – 100</b>	
Max. radial clamping force [kN]		27	36	51	70	86	143	
Max. axial drawtube force [pull / push] [kN]		7,5	10	16	22	27	45	
Max. clamping length [mm]	AG	20	22,5	24	35,3	45,3		
RPM n max. [1/min.]		6000						
Draw bolt Ø [mm]	BA	17	19	23	31	38	49	
Draw bolt head height [mm]	HZ	7,5		11	11,2		11,7	
Reserve stroke in Ø [mm]	D	0,3		0,4				
Release stroke in Ø [mm]	C	0,2		0,3				
Reserve stroke axial [mm]	Q	2						
Release stroke axial [mm]	R	2			2,5			
Reception workpiece end-stop	FD	Ø 32 f7		Ø 41 f7	Ø 50 f7	Ø 65 f7		
Bolt hole circle end-stop	B	LK Ø 50 [3 x M6]		LK Ø 55 [3 x M6]	LK Ø 78 [3 x M6]	LK Ø 80 [3 x M6]		
End-stop outer Ø [mm]	AZ	65		69	93	96		
Length [mm]	H	40	40,5	53,5	71	78	80	
Length 2 [mm]	BS	31						
Total length [mm]	I	150	150,5	160	180	190		
Outer Ø [mm]	AW	224						
Outer Ø 2 [mm]	HD	140						
Max. actuating torque [Nm]	BC	7	10	15	20	25	55	
Weight [kg]		12		13	14			
In stock		✓	✓	✓	✓	✓	✓	
Order no.		10015325	10015326	10015327	10015328	10015329	10015330	

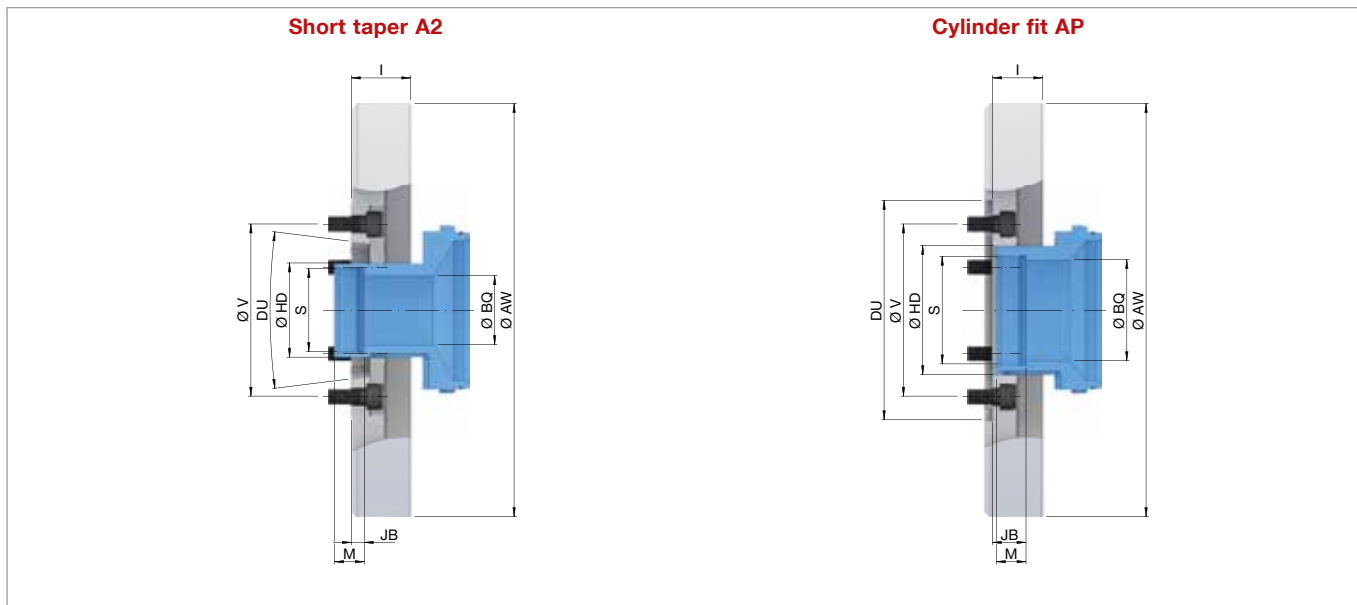
You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Mandrel without air sensing adapter
- Draw bolt



**centroteX M.** Machine adapter with short taper / cylinder fit



Spindle nose	DU	<b>A2-6</b>			<b>A2-8</b>		<b>AP170</b>	<b>AP220</b>	
<b>Outer Ø [mm]</b>	AW	<b>320</b>							
Ø Capacity [mm]	BQ	53	58	68	75	84	94	78	105,5
Repeatability ≤ [mm]		0,005							
Outer Ø 2 [mm]	HD	73 g7	76 g7	85 g7	91 g7	101 g7	110 g7	100 g7	129 g7
Connecting thread inside	S	M66 x 1,5	M70 x 1,5	M79 x 1,5	M85 x 1,5	M95 x 1,5	M105 x 1,5	M85 x 1,5	M116 x 2
Depth of thread [mm]	M	23							32
Thread position in the front end-stop [mm]	JB	10			19		26	31	
Bolt hole circle	V	LK Ø 133,4 [6 x M12]			LK Ø 171,4 [6 x M16]		LK Ø 133,4 [6 x M12]	LK Ø 171,4 [6 x M16]	
Total length [mm]	I	46			53		39	44	
Weight [kg]		22	21	22	25	24		21	22
In stock		✓	✓	✓	✓	✓	✓	✓	✓
Order no.		10000656	10000655	10000654	10000660	10000659	10000658	10000662	10000664

A2-6 / A2-8: Machine spindle standard DIN 55026.

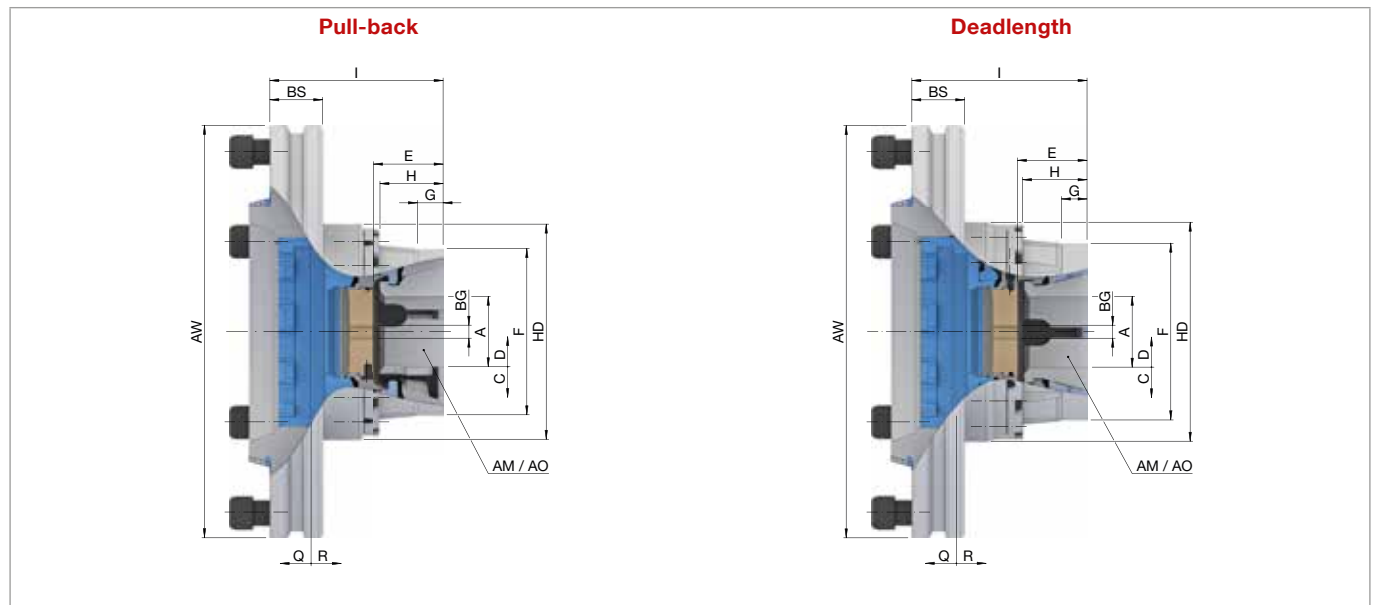
**Scope of delivery**

- Machine adapter
- Bayonet coupling

# QUICK CHANGE-OVER SYSTEMS

## centroteX M

### centroteX M. Clamping device adapter + TOPlus mini



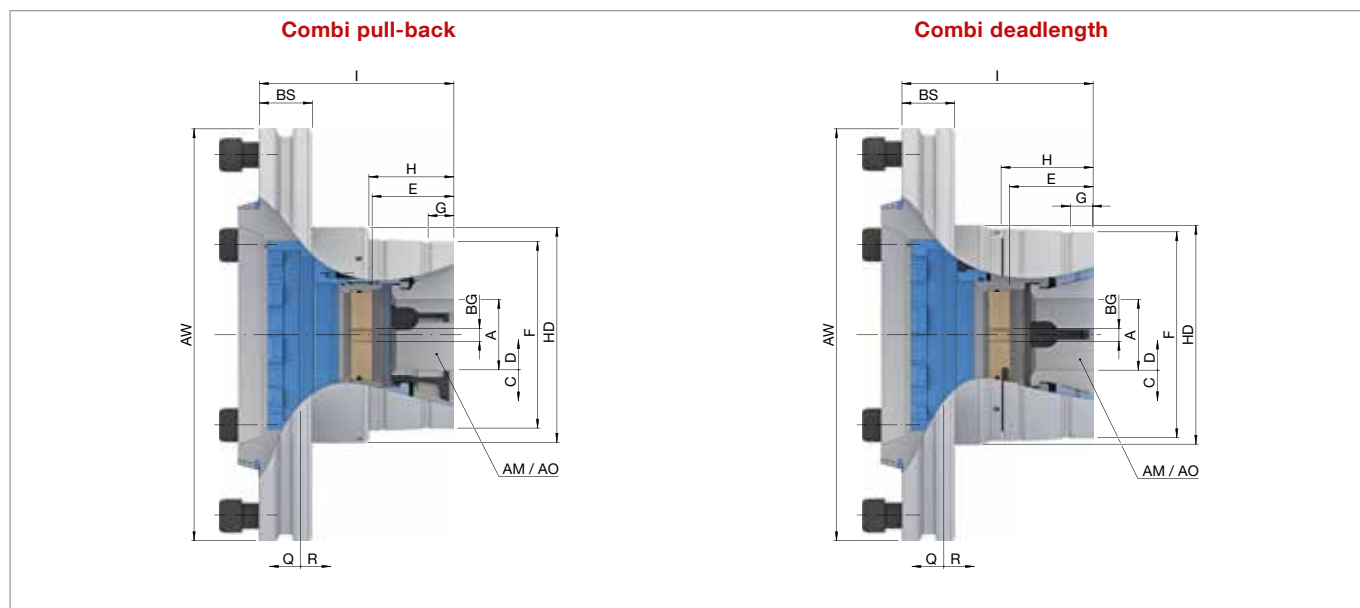
Variant	Pull-back		Deadlength	
Size	65	100	65	100
Max. radial clamping force [kN]	120	172	120	172
Max. axial drawtube force [pull / push] [kN]	45	65	45	65
RPM n max. [1/min.]	6000	5000	6000	5000
Clamping range [mm]	A 3 – 65	15 – 100	3 – 65	15 – 100
Release stroke in Ø [mm]	C 0,6	2	0,6	2
Reserve stroke in Ø [mm]	D 1	1,5	1	1,5
Range / recommended workpiece tolerance [mm]	± 0,5	± 1,0	± 0,5	± 1,0
End-stop depth [mm]	E 54	72	54	74
End-stop thread size [M]	BG			
Location front end-stop	F	Ø 129 f7	Ø 137 f7	Ø 191 f7
Centering length [mm]	G	20	22	
Length [mm]	H	49	64	64
Length 2 [mm]	BS		41	
Total length [mm]	I	134,5	159	166
Reserve stroke axial [mm]	Q	2	3	3
Release stroke axial [mm]	R	2,5	5	5
Clamping head serrated	AM	TOP 65	TOP 65	TOP 100
Clamping head smooth	AO	TOP 65 G	TOP 65 G	TOP 100 G
Outer Ø [mm]	AW		320	
Outer Ø 2 [mm]	HD	167	216	220
Weight [kg]		29	29	43
In stock		✓	✓	✓
Order no.		10016184	10016185	10000678

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

#### Scope of delivery

- Clamping device adapter
- Chuck
- Base end-stop

**centroteX M.** Clamping device adapter + TOPlus



Variant	Combi pull-back		Combi deadlength	
Size	65	100	65	100
Max. radial clamping force [kN]	120	172	120	172
Max. axial drawtube force [pull / push] [kN]	45	65	45	65
RPM n max. [1/min.]	6000	5000	6000	5000
Clamping range [mm]	A 3 – 65	15 – 100	3 – 65	15 – 100
Release stroke in Ø [mm]	C 0,6	2	0,6	2
Reserve stroke in Ø [mm]	D 1	1,5	1	1,5
Range / recommended workpiece tolerance [mm]	± 0,5	± 1,0	± 0,5	± 1
End-stop depth [mm]	E 63,5	73	65	85,5
End-stop thread size [M]	BG			12
Location front end-stop	F	Ø 145 f7	Ø 160 f7	Ø 215 f7
Centering length [mm]	G	20	17	23
Length [mm]	H	66	71,5	94
Length 2 [mm]	BS			41
Total length [mm]	I	154	161,5	173
Reserve stroke axial [mm]	Q	2	3	3
Release stroke axial [mm]	R	2,5	5	5
Clamping head serrated	AM	TOP 65	TOP 65	TOP 100
Clamping head smooth	AO	TOP 65 G	TOP 65 G	TOP 100 G
Outer Ø [mm]	AW			320
Outer Ø 2 [mm]	HD	167	233	219
Weight [kg]		31	45	48
In stock		✓	✓	✓
Order no.		10000672	10000673	10000674

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

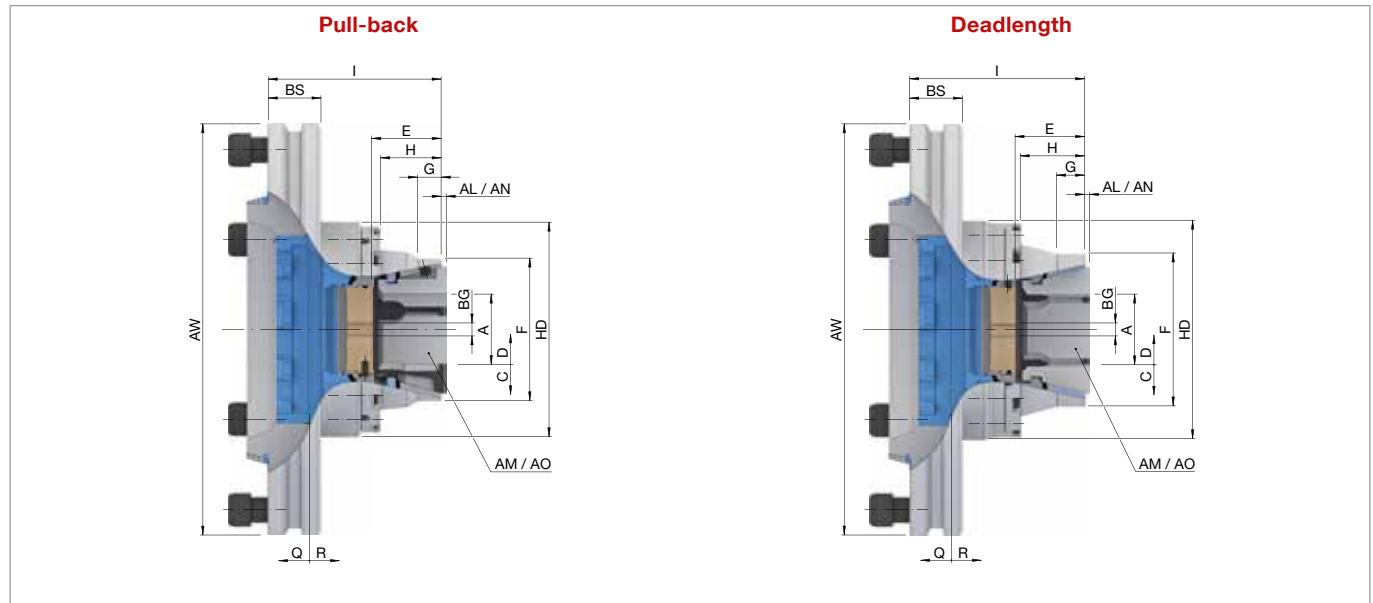
**Scope of delivery**

- Clamping device adapter
- Chuck
- Base end-stop

# QUICK CHANGE-OVER SYSTEMS

## centroteX M

### centroteX M. Clamping device adapter + SPANNTOP mini



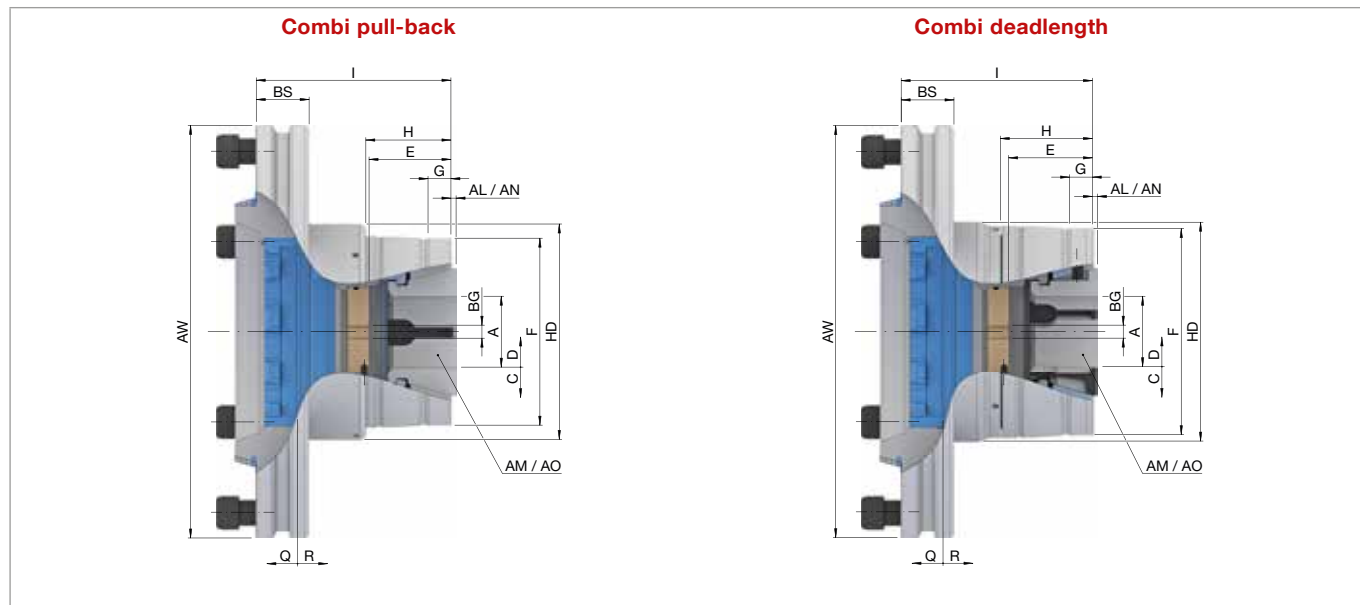
Variant	Pull-back		Deadlength	
Size	65	100	65	100
Max. radial clamping force [kN]	105	150	105	150
Max. axial drawtube force [pull / push] [kN]	45	65	45	64
RPM n max. [1/min.]	6000	5000	6000	5000
Clamping range [mm]	A 3 – 65	15 – 100	3 – 65	15 – 100
Release stroke in Ø [mm]	C 0,6	2	0,6	2
Reserve stroke in Ø [mm]	D 1	1,5	1	1,5
Range / recommended workpiece tolerance [mm]	± 0,5	± 1,0	± 0,5	± 1,0
End-stop depth [mm]	E 54	72	54	74
End-stop thread size [M]	BG			
Location front end-stop	F	Ø 111 f7	Ø 119 f7	Ø 168 f7
Centering length [mm]	G	20	22	
Length [mm]	H	47	64	64
Length 2 [mm]	BS		41	
Total length [mm]	I	134,5	159	166
Reserve stroke axial [mm]	Q	2	3	3
Release stroke axial [mm]	R	2,5	5	5
Clamping head serrated	AM	SK 65 BZI	SK 100 BZ	SK 100 BZ
Clamping head protrusion length serrated [mm]	AL	9		
Clamping head smooth	AO	SK 65 BZIG	SK 100 BZG	SK 100 BZG
Clamping head protrusion length smooth [mm]	AN	4		
Outer Ø [mm]	AW	320		
Outer Ø 2 [mm]	HD	167	216	220
Weight [kg]		28	39	40,5
In stock		✓	✓	✓
Order no.	10016186	10016187	10016188	10016190

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

#### Scope of delivery

- Clamping device adapter
- Chuck
- Base end-stop

**centroteX M.** Clamping device adapter + SPANNTOP nova



Variant	Combi pull-back		Combi deadlength	
Size	65	100	65	100
Max. radial clamping force [kN]	105	150	105	150
Max. axial drawtube force [pull / push] [kN]	45	65	45	65
RPM n max. [1/min.]	6000	5000	6000	5000
Clamping range [mm]	A 3 – 65	15 – 100	3 – 65	15 – 100
Release stroke in Ø [mm]	C 0,6	2	0,6	2
Reserve stroke in Ø [mm]	D 1	1,5	1	1,5
Range / recommended workpiece tolerance [mm]	± 0,5	± 1,0	± 0,5	± 1
End-stop depth [mm]	E 63,5	73	65	85,5
End-stop thread size [M]	BG			
Location front end-stop	F	Ø 145 f7	Ø 160 f7	Ø 215 f7
Centering length [mm]	G	17	17	20
Length [mm]	H	66	71,5	94
Length 2 [mm]	BS			
Total length [mm]	I	151	157,5	148,5
Reserve stroke axial [mm]	Q	2	3	3
Release stroke axial [mm]	R	2,5	5	2,5
Clamping head serrated	AM	SK 65 BZI	SK 65 BZI	SK 100 BZ
Clamping head protrusion length serrated [mm]	AL	9		9
Clamping head smooth	AO	SK 65 BZIG	SK 65 BZIG	SK 100 BZG
Clamping head protrusion length smooth [mm]	AN	4		4
Outer Ø [mm]	AW		320	
Outer Ø 2 [mm]	HD	167	233	170
Weight [kg]		31	46	33
In stock		✓	✓	✓
Order no.		10000668	10000669	10000670
				10000671

You will find matching clamping heads and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

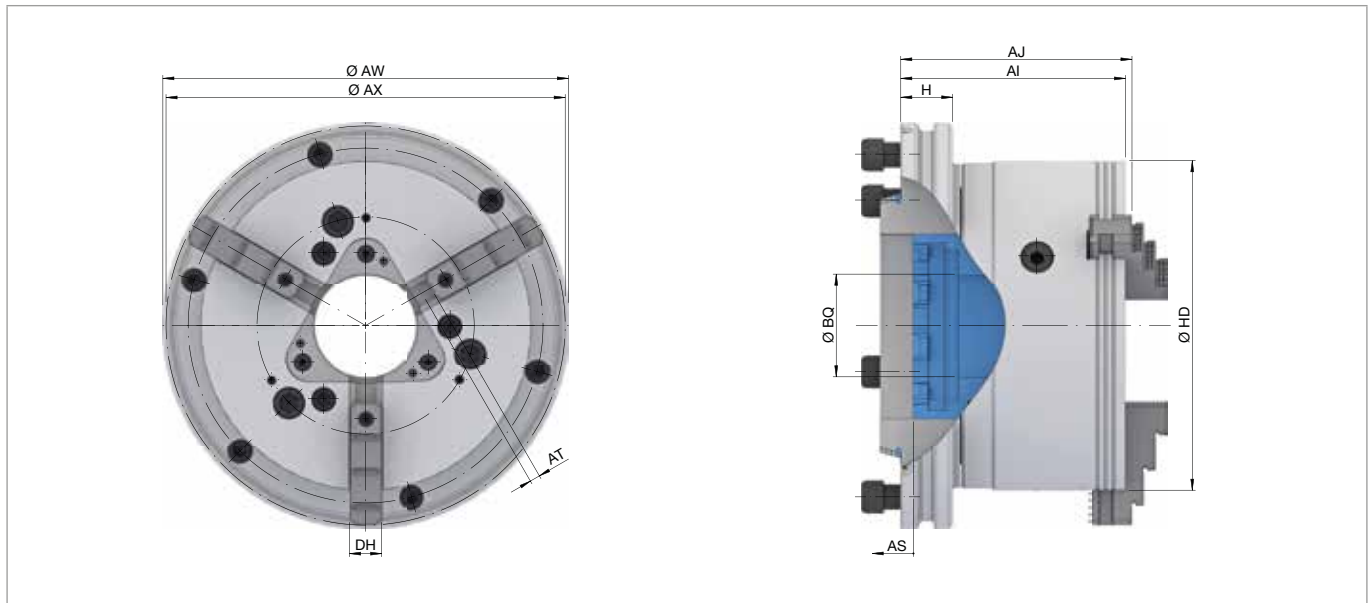
**Scope of delivery**

- Clamping device adapter
- Chuck
- Base end-stop

# QUICK CHANGE-OVER SYSTEMS

## centroteX M

### centroteX M. Clamping device adapter + jaw chuck B-Top



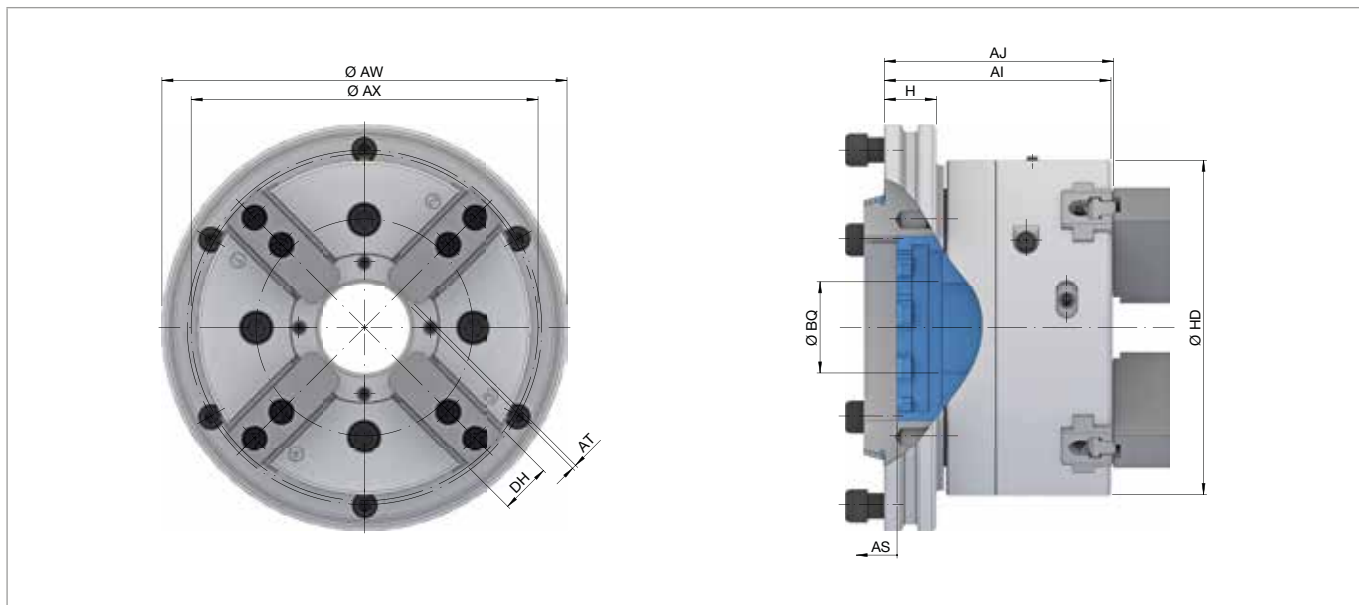
Size	165	260	315
<b>Max. radial clamping force [kN]</b>	<b>41</b>	<b>115</b>	<b>160</b>
Max. axial drawtube force [pull / push] [kN]	30	65	90
RPM n max. [1/min.]	6000	4000	3600
Stroke per jaw [mm] AT	5,9	8,2	8,6
Jaw width [mm] DH	20	26	32
Piston stroke [mm] AS	20	28	28
Swing Ø AX	191,4	315	375,4
Length [mm] H		41	
Outer Ø [mm] AW		320	
Outer Ø 2 [mm] HD	165	260	315
Length without jaws [mm] AI	159,3	177,3	201,6
Length with jaws [mm] AJ	164,7	183,5	212,3
Ø Capacity [mm] BQ	43	81	104
Weight [kg]	38	73	103
In stock	✓	✓	✓
Order no.	10000666	10000665	10000667

For size 315, please note: For machine spindles <A2-8 / AP220, we recommend that your machine builder check the max. spindle bearing load. You will find matching jaws and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

#### Scope of delivery

- Clamping device adapter
- Jaw chuck
- Master jaws
- Jaw release wrench

**centroteX M.** Clamping device adapter + InoFlex VT-S



Size		165	260	315
Variant			VT	
Max. radial clamping force [kN]		52	125	150
Max. axial drawtube force [pull / push] [kN]		20	50	60
RPM n max. [1/min.]		5000	3750	2800
Stroke per jaw [mm]	AT	3,3	5	5,5
Jaw width [mm]	DH	32		40
Piston stroke [mm]	AS	15	22	24
Swing Ø	AX	178	274	326
Length [mm]	H		41	
Outer Ø [mm]	AW		320	
Outer Ø 2 [mm]	HD	168	264	315
Length without jaws [mm]	AI	154,9	177	200
Length with jaws [mm]	AJ	156,9	179	202
Ø Capacity [mm]	BQ	46	72	91
Compensating stroke for each jaw [mm]		2,3	4	4,5
Weight [kg]		37	70	106
In stock		✓	✓	✓
Order no.		10001264	10001265	10001266

You will find matching jaws and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

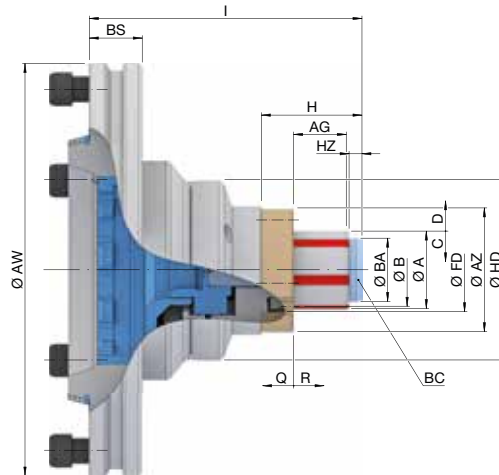
**Scope of delivery**

- Clamping device adapter
- Jaw chuck
- Top jaws, soft
- T-slot nuts
- Grease cartridge
- Assembly wrench for revolving threaded ring

# QUICK CHANGE-OVER SYSTEMS

## centroteX M

### centroteX M. Clamping device adapter + mandrel MANDO T211



Size		0	1	2	3	4
<b>Clamping range [mm]</b>	A	<b>20 – 28</b>	<b>26 – 38</b>	<b>36 – 54</b>	<b>50 – 80</b>	<b>69 – 120</b>
Max. radial clamping force [kN]		42		85	105	150
Max. axial drawtube force [pull / push] [kN]		10		20	25	35
Max. clamping length [mm]	AG	22	26	43	49	59
RPM n max. [1/min.]			7000		6000	
Draw bolt Ø [mm]	BA	19	25	35	49	68
Draw bolt head height [mm]	HZ	7,5		11		16
Reserve stroke in Ø [mm]	D		0,3		0,4	
Release stroke in Ø [mm]	C		0,3		0,4	
Reserve stroke axial [mm]	Q		1,5		2	2,5
Release stroke axial [mm]	R	2			2,5	3
Reception workpiece end-stop	FD	Ø 32 f7	Ø 41 f7	Ø 50 f7	Ø 65 f7	Ø 78 f7
Bolt hole circle end-stop	B	LK Ø 50 [3 x M6]	LK Ø 55 [3 x M6]	LK Ø 78 [3 x M6]	LK Ø 80 [3 x M6]	LK Ø 90 [3 x M6]
End-stop outer Ø [mm]	AZ	65	69	93	96	100
Length [mm]	H	40	51	71	78	95
Length 2 [mm]	BS			41		
Total length [mm]	I	171,5	181,5	201,5	211,5	226,5
Outer Ø [mm]	AW			320		
Outer Ø 2 [mm]	HD			139		
Max. actuating torque [Nm]	BC	10	20	25	55	
Weight [kg]			29		30	31
In stock		✓	✓	✓	✓	✓
Order no.		10000680	10000681	10000682	10000683	10000684

For size 4, clamping range 101 - 120 mm, a max. speed of 4,200 RPM applies.

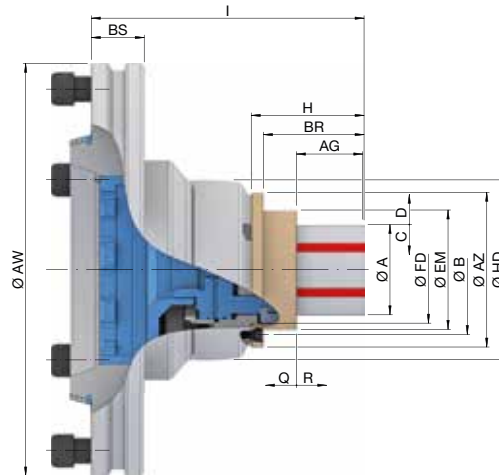
You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Mandrel without air sensing adapter
- Draw bolt



**centroteX M.** Clamping device adapter + mandrel MANDO T212



Size		<b>XXS</b>	<b>XS</b>	<b>S</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	
<b>Clamping range [mm]</b>	A	<b>8 – 13</b>	<b>13 – 19</b>	<b>16 – 21</b>	<b>20 – 28</b>	<b>26 – 38</b>	<b>36 – 54</b>	<b>50 – 80</b>	<b>69 – 100</b>	
Max. radial clamping force [kN]		42				85		105	150	
Max. axial drawtube force [pull / push] [kN]		10				20		25	35	
Max. clamping length [mm]	AG	8,2	15	21	25	40	44,5	52,5		
Reserve stroke in Ø [mm]	D	0,2	0,3				0,4		0,4	
Release stroke in Ø [mm]	C	0,2	0,3				0,4		0,4	
RPM n max. [1/min.]		7000				6000		6000		
Reserve stroke axial [mm]	Q	1,5				2		2,5	2,5	
Release stroke axial [mm]	R	1,5	2				2,5		3	
Reception workpiece end-stop	FD	Ø 34 f7	Ø 36 f7	Ø 39 f7	Ø 47 f7	Ø 55 f7	Ø 65 f7	Ø 83 f7	Ø 103 f7	
Bolt hole circle end-stop	B	LK Ø 53 [3 x M5]		LK Ø 57 [3 x M5]	LK Ø 70 [3 x M6]	LK Ø 75 [3 x M6]	LK Ø 90 [3 x M6]	LK Ø 104 [3 x M6]	LK Ø 124 [3 x M6]	
End-stop outer Ø [mm]	AZ	65		70	90	104	120	138		
End-stop outer Ø 2 [mm]	EM	41	42	45	54	62	76	105	124	
Length [mm]	H	45,5		47,5	58,5	64,5	80,5	87,5	97,5	
Length 2 [mm]	BS	41				47		62	77,5	
Depth [mm]	BR	36,5		38	44	47	62	66,5	77,5	
Total length [mm]	I	172	166,5	168,5	179,5	185,5	211,5		220	
Outer Ø [mm]	AW	320				320		320		
Outer Ø 2 [mm]	HD	139				139		139		
Weight [kg]		29				30		31	32	33
In stock		✓	✓	✓	✓	✓	✓	✓	✓	
Order no.		10000685	10000686	10000687	10000688	10000689	10000690	10000691	10000692	

You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

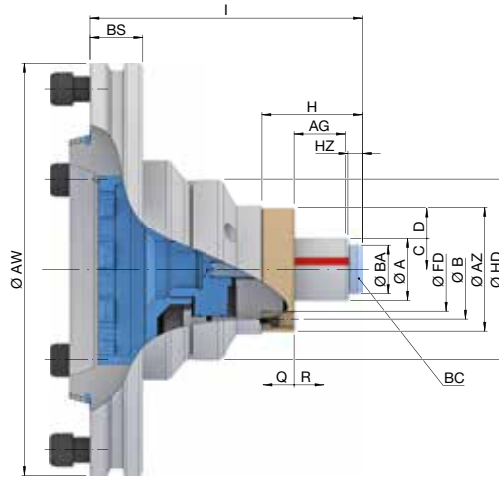
**Scope of delivery**

- Clamping device adapter
- Mandrel without air sensing adapter
- Coupling ring
- Support sleeve for SAD segmented clamping bushings
- Mounting aid depending on size

# QUICK CHANGE-OVER SYSTEMS

## centroteX M

### centroteX M. Clamping device adapter + mandrel MAXXOS T211



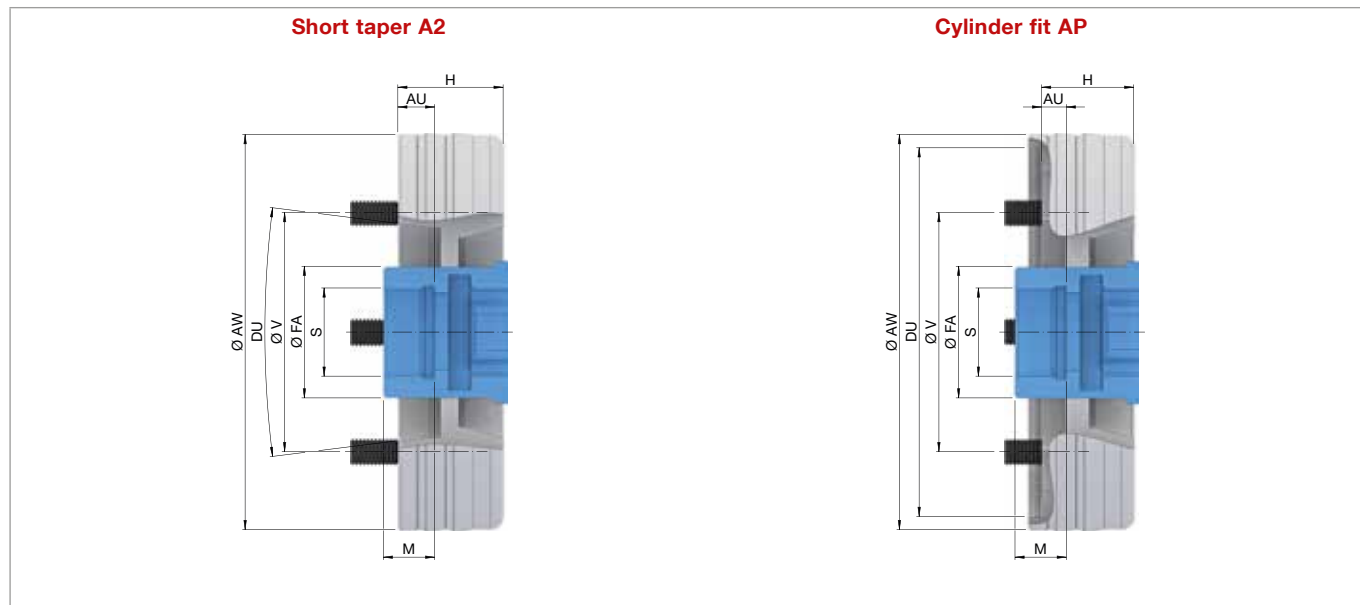
Size		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	
<b>Clamping range [mm]</b>	A	<b>18 – 24</b>	<b>20 – 32</b>	<b>24 – 39</b>	<b>32 – 50</b>	<b>39 – 68</b>	<b>50 – 100</b>	
Max. radial clamping force [kN]		27	42	51	70	86	143	
Max. axial drawtube force [pull / push] [kN]		7,5	10	16	22	27	45	
Max. clamping length [mm]	AG	20	22,5	24	35,3	45,3		
RPM n max. [1/min.]		7000						
Draw bolt Ø [mm]	BA	17	19	23	31	38	49	
Draw bolt head height [mm]	HZ	7,5		11		11,2	11,7	
Reserve stroke in Ø [mm]	D	0,3		0,4				
Release stroke in Ø [mm]	C	0,2		0,3				
Reserve stroke axial [mm]	Q	2						
Release stroke axial [mm]	R	2			2,5			
Reception workpiece end-stop	FD	Ø 32 f7		Ø 55 f7	Ø 50 f7	Ø 65 f7		
Bolt hole circle end-stop	B	LK Ø 50 [3 x M6]		LK Ø 41 [3 x M6]	LK Ø 78 [3 x M6]	LK Ø 80 [3 x M6]		
End-stop outer Ø [mm]	AZ	65		69	93	96		
Length [mm]	H	40		53,5	71	78		
Length 2 [mm]	BS	32,5		40	51,5	61,5	62	
Total length [mm]	I	171,5	172	181,5	201,5	211,5		
Outer Ø [mm]	AW	320						
Outer Ø 2 [mm]	HD	139						
Max. actuating torque [Nm]	BC	7	10	15	20	25	55	
Weight [kg]		28,5	29	28,5	29,2	30		
In stock		✓	✓	✓	✓	✓	✓	
Order no.		10001381	10001382	10001383	10001384	10001385	10001386	

You will find matching segmented clamping bushings and other accessories in our main catalogue or on [www.hainbuch.com](http://www.hainbuch.com).

### Scope of delivery

- Clamping device adapter
- Mandrel without air sensing adapter
- Draw bolt

**mandoteX.** Machine adapter with short taper / cylinder fit



Spindle nose	DU	<b>A2-5</b>	<b>A2-6</b>	<b>A2-8</b>	<b>AP140</b>	<b>AP170</b>
<b>Outer Ø [mm]</b>	AW	<b>150</b>	<b>165</b>	<b>235</b>	<b>150</b>	<b>180</b>
Repeatability ≤ [mm]				0,003		
Outer Ø 2 [mm]	FA			50		
Connecting thread inside	S			M35 x 1,5		
Depth of thread [mm]	M			19,5		
Bolt hole circle	V	LK Ø 104,8 [6 x M10]	LK Ø 133,4 [6 x M12]	LK Ø 171,4 [6 x M16]	LK Ø 104,8 [6 x M10]	LK Ø 133,4 [6 x M12]
Length [mm]	H		40		35	
Position in clamped position [mm]	AU		14		9	
In stock		✓	✓	✓	✓	✓
Order no.		10000592	10000593	10000595	10000594	10000596

A2-5 / A2-6 / A2-8: Machine spindle standard DIN 55026.

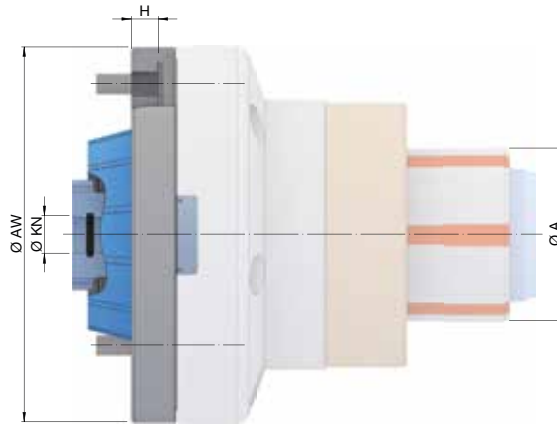
**Scope of delivery**

- Machine adapter
- Bayonet coupling

# QUICK CHANGE-OVER SYSTEMS

## mandoteX

### mandoteX. Clamping device adapter



Size	<b>MANDO XXS – 4 / MAXXOS A – F</b>	
<b>Clamping range [mm]</b>	A	<b>8 – 120</b>
Length [mm]	H	10
Air sensing control bore Ø [mm]	KN	14
Outer Ø [mm]	AW	139
In stock		✓
Order no.		10000590

### Mounting screws mandoteX



Product	Suitable for	Scope of delivery	In stock	Order no.
Mounting screws	MANDO T211 size 0 – 3 MAXXOS T211 size A – F	3 x M8x30-1, 3 x M8x45-1	✓	10001398
	MANDO T211 size 4 MANDO T212 size XXS – 2 MANDO T812 size XXS – 2	3 x M8x35-1, 3 x M8x50-1	✓	10001399
	MANDO T212 size 3 MANDO T812 size 3	3 x M8x45-1, 3 x M8x60-1	✓	10001400
	MANDO T212 size 4 MANDO T812 size 4	3 x M8x50-1, 3 x M8x65-1	✓	10001401

QUICK CHANGE-OVER SYSTEMS  
**mandotEX**

**Accessories**



**Accessories: Monteq mounting aid for centroteX**

A practical support is now available for everyone who must set up heavy clamping devices: the Monteq chuck mounting aid for the centroteX quick change-over system. With the Monteq mounting aid, alignment and handling are easy. Thanks to the spring-loaded bearing arrangement the clamping device can even be lifted by hand, the swiveling holder makes it easy to lock the clamping device in the machine-side bayonet, and with an adjustable screw the clamping device can be adjusted onto the spindle.

**Key advantages**

- Easy and safe handling of heavy clamping devices
- Short changing times thanks to quick-acting screws
- The clamping device is not suspended diagonally

**Monteq in detail**

Designation	
1 Weight transference 2 Swivel mechanism for the bayonet 3 Quick-acting bolt for clamping device adapter 4 Spring package for fine height adjustment to the spindle	

Product	Description	In stock	Order no.
Monteq S mounting aid	For fast, easy, safe, and accurate centroteX S clamping device mounting	✓	10015378
Monteq M mounting aid	For fast, easy, safe, and accurate centroteX M clamping device mounting	✓	10000647



The figure shows a sample configuration

### **Accessories: Storage container for centroteX**

Quick change-over of the clamping device starts with optimal preparation. Our practical roll containers put everything you need at your fingertips. Your clamping devices are safely stored, protected against contamination, and thus they maintain their accuracy.

#### **Key advantages**

- All clamping devices are immediately on hand
- Safe storage maintains accuracy and prevents contamination
- Storage containers are custom designed for your clamping devices

QUICK-CHANGE SYSTEMS  
**Special solution examples**



**centroteX for gear cutters**

- Changing of gear cutter mandrels
- Machine adapter is fluid-actuated, mandrels power-actuated via bayonet coupling
- Vertical insert

**Challenge**

- Support height of workpieces: 505 – 515 mm
- Clamping diameter between 15 and 250 mm
- Run-out accuracy on mandrel below 0.01 mm
- Protection against contamination and cooling lubricants

**Results / customer benefits**

- Fast and versatile change-over of the gear cutter mandrels
- Optimal tension for each workpiece
- Run-out accuracy on mandrel of up to 0.008 mm is possible by alignment
- Central media transfer allows rotation of up to 50 rpm
- Drain holes for dirt and cooling lubricant





**centroteX for large clamping devices**

- Change between jaw chuck up to size 630 and SPANNTOP nova combi dead length size 160

**Challenge**

- Fast and easy change-over of large chucks
- Maximum precision in clamping devices with high intrinsic weight

**Results / customer benefits**

- Set-up time reduced from 100 to 3 minutes
- ROI of quick-change system < 1 year
- Simplified handling due to Monteq interface
- Repeat accuracy  $\leq 0.005$  mm



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